AMENDMENTS TO THE CLAIMS

Pursuant to 37 C.F.R. § 1.121 the following listing of claims will replace all prior versions, and listings, of claims in the application.

1. An apparatus for detecting a scene change in a compressed moving-picture comprising:

an image structure judging portion for judging an image structure of an inputted compressed moving-picture;

a feature quantity extracting portion for extracting a feature quantity based on top and bottom double data in vertical direction of an image with respect to a field structure image when a judgment result of the image structure judging portion is a frame structure image;

a storage area for storing data extracted by the feature quantity extracting portion;

an extracted data comparing portion for comparing the extracted data and calculating a quantity of variation of a picture; and

a scene change judging portion for judging a scene change by the use of the quantity of variation calculated by the extracted data comparing portion.

2. An apparatus for detecting a scene change in a compressed moving-picture comprising:

a feature quantity extracting portion for extracting a feature quantity based on block data for one block independently of an image structure of an inputted compressed moving-picture;

a storage area for storing block data extracted by the feature quantity extracting portion;

an extracted data comparing portion for comparing a feature quantity by the use of double block data in vertical direction of an image with respect to a field structure image when an image from which a feature quantity has been extracted is a frame structure image; and

a scene change judging portion for judging a scene change by the use of the quantity of variation calculated by the extracted data comparing portion.

3. (Cancel)

4. An apparatus for detecting a scene change in a compressed moving-picture comprising:

a scene change judging portion for judging a scene change; and

a scene change interval retrieving portion for retrieving scene changes that exist at a start point and an end point of a specified particular interval among scene changes detected by the scene change judging portion.

5. An apparatus for detecting a scene change in a compressed moving-picture as set forth in Claim 1, wherein a threshold determined on the reference of a maximum quantity of variation of an image is included in thresholds that the scene change judging portion uses as a criterion of a scene change.

6. An apparatus for detecting a scene change in a compressed moving-picture as set forth in Claim 2, wherein a threshold determined on the reference of a maximum quantity of variation of an image is included in thresholds that the scene change judging portion uses as a criterion of a scene change.

7. (Cancel)

8. The apparatus for detecting a scene change in a compressed moving-picture as set forth in Claim 4, wherein a threshold determined on the basis of a maximum quantity of variation of an image is included in thresholds that the scene change judging portion uses as a criterion of a scene change.

9. A method of detecting a scene change in a compressed moving-picture comprising inputting a compressed moving-picture in which field structure images and frame structure images exist together and detecting a scene change in the inputted compressed moving-picture.

10. A method of detecting a scene change in a compressed moving-picture comprising:

an image structure judging step of judging an image structure of an inputted compressed moving-picture;

a feature quantity extracting step of extracting a feature quantity based on top and bottom double data in vertical direction of an image with respect to a field structure image when a judgment result of the image structure judging step is a frame structure image;

a storage area for storing data extracted by the feature quantity extracting step;

an extracted data comparing step of comparing the extracted block data and calculating a quantity of variation of a picture; and

a scene change judging step of judging a scene change by the use of the quantity of variation calculated by the extracted data comparing step.

11. A method of detecting a scene change in a compressed moving-picture comprising:

a feature quantity extracting step of extracting a feature quantity based on block data for one block independently of an image structure of an inputted compressed moving-picture;

a storage area for storing block data extracted by the feature quantity extracting step;

an extracted data comparing step of comparing a feature quantity by the use of double block data in vertical direction of an image with respect to a field structure image when an image from which a feature quantity has been extracted is a frame structure image; and

a scene change judging step of judging a scene change by the use of the quantity of variation calculated by the extracted data comparing step.

12. (Cancel)

13. A method of detecting a scene change in a compressed moving-picture comprising:

a scene change judging step of judging a scene change; and

a scene change interval retrieving step of retrieving scene changes that exist at a start point and an end point of a specified particular interval among scene changes detected by the scene change judging step.

14. A recording medium that computer-readably records a program for detecting a scene change in a compressed moving-picture, the program comprising:

an image structure judging step of judging an image structure of an inputted compressed moving-picture;

a feature quantity extracting step of extracting a feature quantity based on top and bottom double data in vertical direction of an image with respect to a field structure image when a judgment result of the image structure judging step is a frame structure image;

a storage area for storing data extracted by the feature quantity extracting step;

an extracted data comparing step of comparing the extracted data and calculating a quantity of variation of a picture; and

a scene change judging step of judging a scene change by the use of the quantity of variation calculated by the extracted data comparing step.

15. A recording medium that computer-readably records a program for detecting a scene change in a compressed moving-picture, the program comprising:

a feature quantity extracting step of extracting a feature quantity based on block data for one block independently of an image structure of an inputted compressed moving-picture;

a storage area for storing block data extracted by the feature quantity extracting step;

an extracted data comparing step of comparing a feature quantity by the use of double block data in vertical direction of an image with respect to a field structure image when an image from which a feature quantity has been extracted is a frame structure image; and

a scene change judging step of judging a scene change by the use of the quantity of variation calculated by the extracted data comparing step.

16. (Cancel)

17. A recording medium that computer-readably records a program for detecting a scene change in a compressed moving-picture, the program comprising:

a scene change judging step of judging a scene change; and

a scene change interval retrieving step of retrieving scene changes that exist at a start point and an end point of a specified particular interval among scene changes detected by the scene change judging step.